
SD Digital Receiver

User's Manual

IR2000SD

The default parental control code is 1234.
The default installation code is 0000.



HUMAX

Notice

Thank you for purchasing a HUMAX product. Please read this user's manual carefully to be able to safely install, use and maintain the product at maximum performance. Keep this user's manual next to your product for future reference. The information in this user's manual is subject to change without notice.

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Warranty

The warranty does not cover parts which may become defective due to misuse of the information contained in this manual.

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Notice

Warnings, Cautions and Notes

Throughout the whole manual, pay special attention to the following marks that indicate hazardous situations.

- **Warning**
Indicates a hazardous situation which could result in serious injury.
- **Caution**
Indicates a situation which could damage the equipment or other apparatus.
- **Note**
Indicates additional information to make the user aware of possible problems and information of any importance to help understand, use, and maintain the installation.

Meaning of Symbols



To reduce the risk of electric shock, do not remove cover(or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



This symbol indicates dangerous voltage inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

Instruction about the 'WEEE' Symbol



This product should not be disposed with other household wastes at the end of its working life. Please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. This will prevent possible harm to the environment or human health from uncontrolled waste disposal.

- **Domestic users:** Please contact either the retailer where you purchased this product or their local government office for details of where and how they can take this item for environmentally safe recycling.
- **Business users:** Contact your supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Safety Warning

This product has been manufactured to comply with international safety standards. Please read the following safety precautions carefully.

Safety Instructions and Precautions

1. MAINS SUPPLY

90-250V a.c., 50/60Hz

- Operate this product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company.
- Disconnect the product from the mains before you start any maintenance or installation procedures.

2. OVERLOADING

- Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.

3. LIQUID

- The product should not be exposed to liquid of any kind. In addition, no objects filled with liquid should be placed on the apparatus.

4. CLEANING

- Disconnect the product from the wall outlet before cleaning.
- Use a light damp cloth (no solvents) to dust the product.

5. VENTILATION

- The slots on top of the product must be left uncovered to allow proper airflow into the unit.
- Do not stand the product on soft furnishings or carpets.
- Do not stack electronic equipments on top of the product.

6. ATTACHMENTS

- Do not use any unsupported attachments as these may be hazardous or cause damage to the product.

7. CONNECTION TO THE SATELLITE DISH LNB

- Disconnect the product from the mains before connecting or disconnecting the cable from the satellite dish. Failure to do so can damage the LNB.

8. CONNECTION TO THE TV

- Disconnect the product from the mains before connecting or disconnecting the cable from the TV. Failure to do so can damage the TV.

9. EARTHING

- The LNB cable must be earthed to the system earth for the satellite dish.

Safety Warning

10.LOCATION

- Place the product indoors to avoid exposing it to lightning, rain or sun.
- Do not place it near a radiator or heat register.
- Do not place naked flames such as lighted candles on or near the product.
- Make sure it has more than 10 cm clearance from any appliances susceptible to electromagnetic influences, such as a TV or a VCR.
- Do not block the openings with any object, and do not place the product on a bed, sofa, rug, or other similar surface.
- If you place the product on a rack or a bookcase, ensure that there is adequate ventilation and that you have followed the manufacturer's instructions for mounting.
- Do not place the product on an unstable cart, stand, tripod, bracket, or table where it can fall.
- A falling product can cause serious injury to a child or adult, and serious damage to the appliance.

11.LIGHTNING, STORM OR NOT IN USE

- Unplug the product from the wall outlet and disconnect the antenna during a thunderstorm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-surges.

12.EXTRANEIOUS OBJECTS

- Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts.

13.REPLACEMENT OF PARTS

- When replacement of parts is required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitution may result in additional damage to the unit.

Safety Warning

Warning

The mains plug, as a disconnection device, shall remain readily accessible by the user.

1. To avoid damage of the power cord or plug;

- Do not modify or process the power cord or plug arbitrarily.
- Do not bend or twist the power cord.
- Make sure to disconnect the power cord holding the plug.
- Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.
- The mains plug, as a disconnection device, shall remain readily accessible by the user.

2. To avoid electrical shock;

- Do not open the main body.
- Do not insert metal or inflammable objects inside the product.
- Do not touch the power plug with wet hands.
- Disconnect the power cord in case of lightning.

3. To avoid damage of product;

- Do not use the product when it is out of order. If you continue to use the product when defective, serious damage can be caused to it. Make sure to contact your local product distributor if the product is out of order.
- Do not insert metal or alien substance into the slots for the modules or Smartcards. It may cause damage to the product and reduce its life span.

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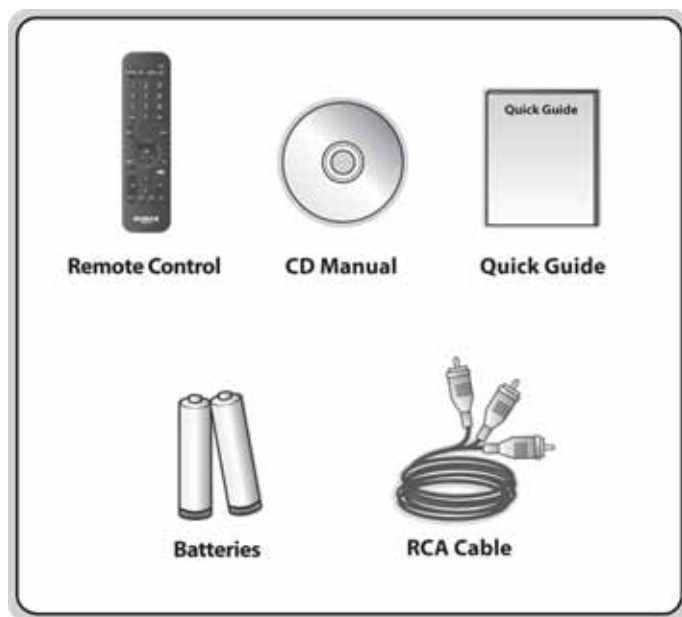
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1. Before Using the Product

This chapter provides detailed instructions on the product and its accessories.

1.1 Package Contents

Please check all package contents before using your product.



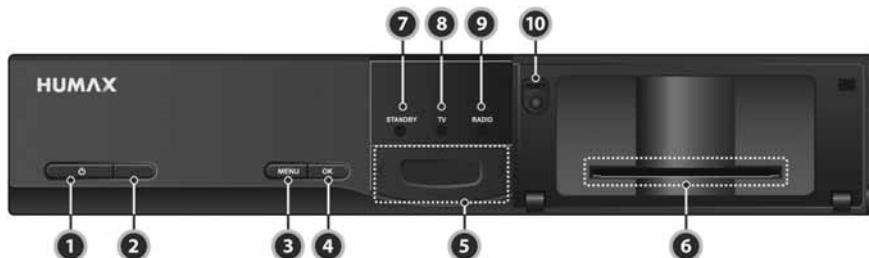
Note:

- Faults may occur if the remote control is left without battery for a long time. Always keep the battery inserted in the remote control.
- Package contents may vary according to area.

1. Before Using the Product

1.2 Front Panel

Open the right-hand flap on the front panel of the product to expose the card slot.



1. STANDBY BUTTON

Switches between operation and standby modes.

2. IR SENSOR

Receives the signal from the remote control.

3. MENU BUTTON

Displays the main menu.

4. OK BUTTON

Selects a menu or confirms the selected operation.
Displays the channel list while watching a programme.

5. ARROW BUTTONS

Changes the channel or moves the cursor up, down, left or right.

6. SMARTCARD SLOT

A slot for a Smartcard

7. STANDBY LED

Red light is emitted when the product is in standby mode.
Green light is emitted when the product is in operation mode.
Orange light is emitted when the product is booting.

8. TV LED

Green light is emitted when the product is in TV mode.

9. RADIO LED

Green light is emitted when the product is in radio mode.

10. RESET BUTTON

Restarts the system.

Note: The image shown may differ from the actual product.

1. Before Using the Product

1.3 Conditional Access

Although some TV and radio services are free to air, others are available on a subscription basis and can only be enjoyed via a Conditional Access component.

1. Inserting the Smartcard

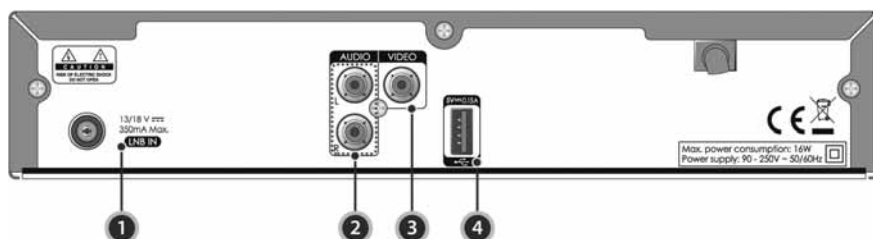
The Smartcard looks similar to a credit card and is inserted into the slot behind the right-hand front flap of the product. A valid Smartcard entitles you to view and listen to all the channels you choose to subscribe to.

1. Open the right-hand flap on the front panel of the product to expose the card slots.
2. Hold the Smartcard horizontally with the electronic chip (small square-shaped, gold in colour) facing downwards.
3. Insert the Smartcard into the slot.



1. Before Using the Product

1.4 Rear Panel



- 1. LNB IN**
Connect a satellite antenna cable.
- 2. AUDIO**
Use an RCA cable to connect to the TV.
- 3. VIDEO**
Use an RCA cable to connect to the TV.
- 4. USB Port**
Service Port

Note: The image shown may differ from the actual product.

1. Before Using the Product

1.5 Remote Control



STANDBY

Switches between operation and standby modes.

MUTE

Mutes audio.

WELCOME

Displays the service information.

MAIL

Displays the mail message.

TV/RADIO

Switches between TV and radio modes.

WIDE

Sets the display format.

NUMERIC

0-9

MENU

Displays the main menu.

EPG

Displays the programme guide.

COLOUR

Colour keys for interactive applications.

EXIT

Exits all On-Screen Display (OSD) screen.

SLEEP

Sets the sleep time.

Note: The image shown may differ from the actual product.

1. Before Using the Product



ARROW

Moves the cursor up, down, left and right.

OK

Selects a menu or confirms a selection.

Displays the channel list while you are watching a programme.

BACK

Returns to the previous channel.

FAV

Displays the favourite list.



Adjust the audio volume.

i

Displays the channel and programme information.

OPT+

Displays the channel's attributes.



Change the channel or page.



Displays the audio list.



Displays the subtitle language list.

TEXT

Displays the subtitle language list.

LIST

Displays the RSS feed for Almajd.

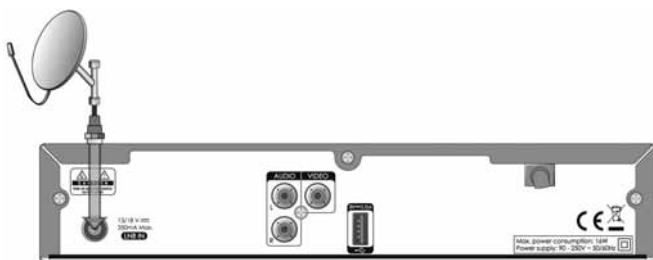
2. Setup

This chapter describes how to connect your product to the TV with the particular equipments for gaining optimum signal quality.

Note: If you encounter any problems setting up your product, please contact your local product distributor.

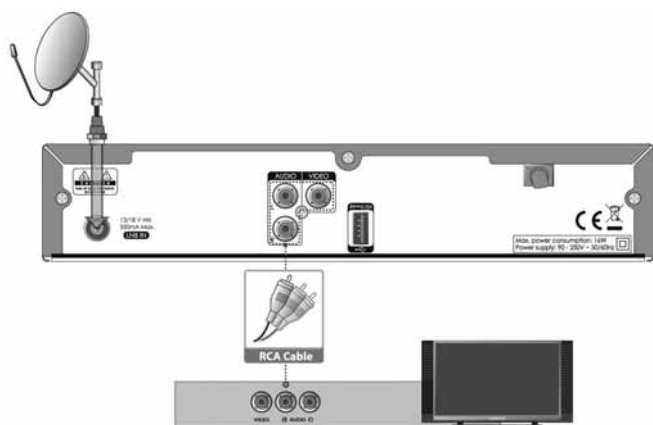
2.1 Connecting the Antenna

Connect the antenna to the LNB IN.



2.2 Connecting the TV

Connect the product and the TV using an RCA cable.

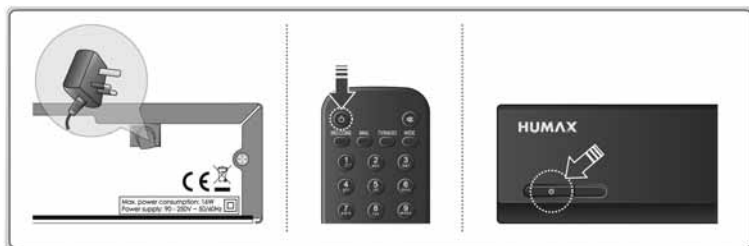


Note: Connecting your TV directly to the audio/video output of the product will assure a more vivid picture and enhance your viewing enjoyment.

2. Setup

2.3 Powering On

1. Connect the power cord of the product to a wall outlet.
2. Power on by pressing the **STANDBY** button of the remote control or the **STANDBY** button at the front of the product.



Inserting Batteries

1. Press the hook upward and lift the battery cover off .
2. Insert the batteries matching the plus(+) and minus(-) at each end.
3. Close the cover.



3. Installation Wizard

When powering on your product for the first time after purchase, the installation wizard will operate automatically.

Tip: The default installation code is **0000**. If you have forgotten your installation code, please contact your local product distributor.

3.1 Language

Select your language.



3.2 Region

Select your country.



3.3 Automatic Search

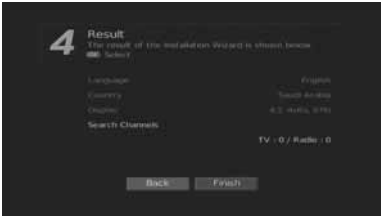
Channel search will activate.



3. Installation Wizard

3.4 Results

The result of the installation wizard is shown.
Select **Finish** to exit the wizard.



4. Menu Overview

Press the **MENU** button to display the menu.



4.1 Welcome

Select **Welcome** to contact the broadcasting operator.

4.2 Channel List

Select **Channel List** to display the channel list.

4.3 TV Guide

Select **TV Guide** to display the electronic programme guide.

4.4 Mail Messages

Select **Mail Messages** to check the mails from the broadcasting operator.

When a new mail arrives, the mail icon will appear on the screen. Press the **OK** button to see the details.

4.5 Settings

Select **Settings** to set the options such as Preferences, Edit Channels, Installation, System.

Note:

- Press the **RED** button to update data automatically.
- Press the **GREEN** button to access **Welcome**.
- Press the **YELLOW** button to check the signal detection.
- Press the **BLUE** button to access **Mail Messages**.

5. Basic Operation

This chapter describes the basic functions the product provides such as switching channel, volume control and other common features.

5.1 Switching Channel

You can switch the current channel by pressing the **P ▲/▼** button or entering the channel number directly using the **NUMERIC(0-9)** buttons.

5.2 Volume Control

Press the **VOL +/-** button to adjust the audio volume. Press the **MUTE** button to stop the audio temporarily.

5.3 Wide

You can set the display format. Press the **WIDE** button while watching a programme to change the display format. Each time you press the **WIDE** button, the display format changes.

5.4 Audio

Press the **AUDIO** button and select the audio language you prefer. Select audio direction (left, right, stereo) using the **◀/▶** button.

5.5 Subtitle

Press the **SUBTITLE** button and select the required subtitle language and press the **OK** button. The subtitle will be displayed in the selected language at the bottom of the screen.

5. Basic Operation

5.6 Teletext

Press the **TEXT** button. To display the teletext menu, press the **MENU** button in teletext mode. Select the teletext function you want and press the **OK** button.

5.7 RSS Feeds

Press the **LIST** button to display the RSS(Really Simple Syndication) feed for Almajd. Select the category you want and press the **OK** button. A banner of the selected category is displayed and changes every 10 seconds.

5.8 Programme Information (i-plate)

The i-plate is always displayed for a certain period of time whenever you switch channels. Press the **i** button while watching a programme. Press the **i** button again to view detailed information.



6. Channel List

The channel list will help you find the channel you want to watch quickly and easily.

You can access the channel list in several ways.

➤ Press the **OK** button while you are watching a programme.

➤ Press the **MENU** button and select **Channel List**.

6.1 Changing Channels

Select the channel you want to watch and press the **OK** button.

Press the **►** button and select a channel group.

Press the **RED** button to sort the list in numerical or alphabetical order.



6.2 Editing Channels in Channel List

1. Select a channel you want to edit and press the **GREEN** button.
2. Select an option.
 - **Favourite:** Select a favourite group you want to include the channel in and press the **OK** button.
 - **Lock:** Select **On** or **Off**.
 - **Delete:** Press the **OK** button.
3. Select **OK** to save and exit.



7. TV Guide

The TV guide is an on-screen guide of grid type which displays the programme information of channels in time and date order.

You can access the TV guide in several ways.

- Press the **EPG** button.
- Press the **MENU** button and select **TV Guide**.

7.1 Table Guide

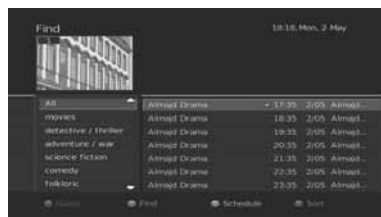
You can view the programme information of all channels in time and date order.

Note: Press the **BLUE** button to list the channel of other groups.



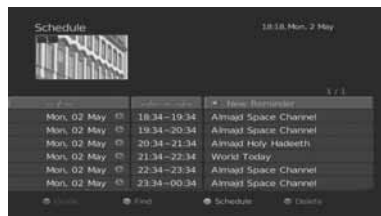
7.2 Find

Find will help you find the programmes more specifically using the keyword or genre.



7.3 Schedule

Schedule lists reminders and will help you manage them in more detail.



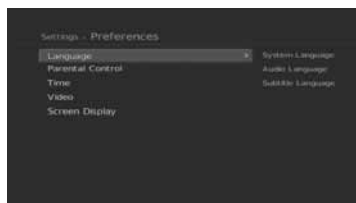
8. Settings

8.1 Preferences

In this chapter you can set options for language, parental control, time, video and screen display.

1. Language

System Language, Audio Language, Subtitle Language



2. Parental Control

Maturity Rating, Change Parental Control Code

Note: The default parental control code is 1234. If you have forgotten your parental control code, please contact your local distributor.

3. Time

GMT Offset, Auto Update Timer, Power On Timer, Channel, Volume, Repeat, Power Off Timer

4. Video

Screen Ratio, Display Format, Letterbox & Pillarbox Colour

5. Screen Display

Info Display Time, Transparency, Subtitle Font, RSS Feeds display time

8. Settings

8.2 Edit Channels

In this chapter you can edit all channels in the channel list or make changes to the favourite lists of the channels you have chosen.

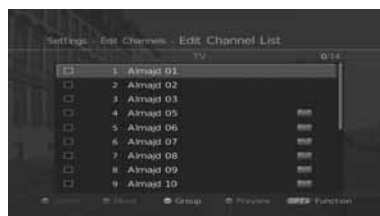
You will be prompted to enter the installation code to access this menu.

Note: The default installation code is 0000. If you have forgotten your installation code, please contact your local product distributor.

1. Edit Channel List

You can delete, lock or rename multiple channels.

Note: You cannot move the channels.



2. Edit Favourite List

You can add or remove channels from the favourite groups.



8. Settings

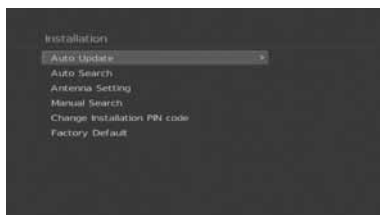
8.3 Installation

Installation menu allows you to configure your antenna and search the available TV and radio channels. Software update and default setting are also available in this section.

MENU -> Settings -> Installation

You will be prompted to enter the password to access this menu.

Note: The default installation code is 0000. If you have forgotten your installation code, please contact your local product distributor.



1. Auto Search

You can search satellites and channels automatically.

2. Auto Update

You can update data automatically.

3. Antenna Setting

You can set the satellite.

- Set the satellite by selecting a satellite figure and press the **OK** button.
 - **Satellite:** Select the satellite.
 - **LNB Frequency:** Select the LNB frequency.
 - **22kHz Tone:** Select **On** when using a 22kHz tone switch box.
 - **DiSEqC:** Select the DiSEqC switch.
 - **Test Transponder:** Check the signal status of each transponder and select the one with the best quality.
- Select **Yes** and press the **OK** button.



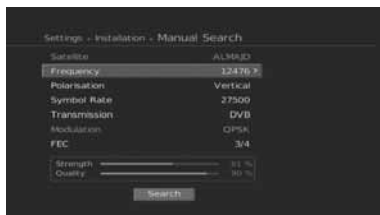
8. Settings

4. Manual Search

You can search the channels as the satellite you set.

1. Enter the options.
 - **Frequency:** Enter the frequency of the transponder.
 - **Polarisation:** Select the polarization of the transponder.
 - **Symbol Rate:** Enter the symbol rate of the transponder.
 - **Transmission:** Select **DVB-S2** or **DVB**.
 - **Modulation:** Select **QPSK** or **8PSK** when selecting **DVB-S2** in **Transmission**.
 - **FEC:** Select the FEC of the transponder.
2. Select **OK** and press the **OK** button.

Note: Refer to the following websites for information on up-to-date transponder frequencies. www.lyngsat.com



5. Change Installation Code

You can change the installation code that is needed to access the installation menu.

Note: The default installation code is 0000. If you have forgotten your installation code, please contact your local product distributor.

6. Factory Default

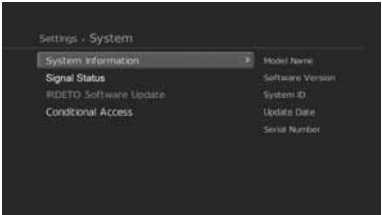
You can restore the product to the factory default.

8. Settings

8.4 System

1. System Information

The system information is displayed.



2. Signal Status

You can check the signal strength and quality of the searched channels.

3. IRDETO Software Update


When the Over-The-Air is available, **IRDETO Software Update** is activated.

4. Conditional Access

You can view the Smartcard information.

9. Appendix

9.1 Specification

Tuner & Channel	
Input Connector	F-Type, IEC 169-24
Frequency Range	950MHz to 2150MHz
Signal Level	-25dBm to -75dBm
LNB Power & Polarisation	Vertical : 12.4 ~ 13.7V Horizontal : 17.1 ~ 18.7V Current : MAX. 350mA (overload protection)
22Khz Tone	Frequency : 22KHz \pm 2kHz Amplitude : 650mVp-p \pm 250mV
DiSEqC	1.0, 1.2, USALS compatible
Demodulation	DVB-S2(QPSK & 8PSK)
Bandwidth	DVB-S : 1 ~ 45MSym/s DVB-S2 : 10-30MSym/s(QPSK, 8PSK)
Input, Symbol Rate	DVB-S: Auto, 1/2, 2/3, 3/4, 5/6, 7/8 DVB-S2: Auto, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10(QPSK) Auto, 3/5, 2/3, 3/4, 5/6, 8/9, 9/10(8PSK)
FEC mode	F-Type, IEC 169-24
Video/Audio Processing	
Video Decoder	MPEG-2 MP@ML MPEG-2 MP@HL MPEG-4 AVC/H.264 HP@L3
Audio Decoder	MPEG1 Layer-I/II/III, MPEG2, AC3
Resolution	576i
Audio Mode	Single/Dual Mono/ Stereo/ Joint Stereo
Data Port	
USB	USB 2.0 Host (5 V  150mA Max.)

9. Appendix

Memory	
Flash Memory	8 MB
RAM	64 MB
EEPROM	8 KB
Audio/Video In/Out	
Video	CVBS
Audio	Audio L/R
Power Supply	
Input Voltage	AC 90-240 volts, 50/ 60Hz
Type	SMPS
Power Consumption	16W
Protection	Separate Internal Fuse & Lightning protection
Physical Specification	
Size	260mm x 182mm x 50 mm
Weight (Net)	1.02 kg
Operating Temperature	0 °C to +45 °C
Storage Humidity	-10 °C to +70 °C